



Dr. Mostafa Habibi

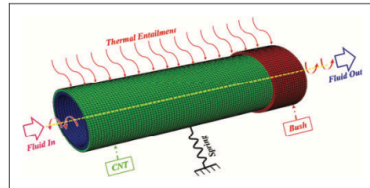


Figure 1. Geometry of a 3-D CNT reinforced spinning cylindrical shell conveying viscous fluid flow in thermal environment and adding spring-mass systems. CNT: carbon nanotube.

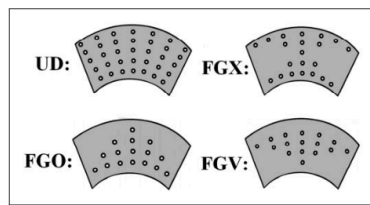


Figure 2. Different distribution of CNT as reinforcements in the structures. CNT: carbon nanotube.

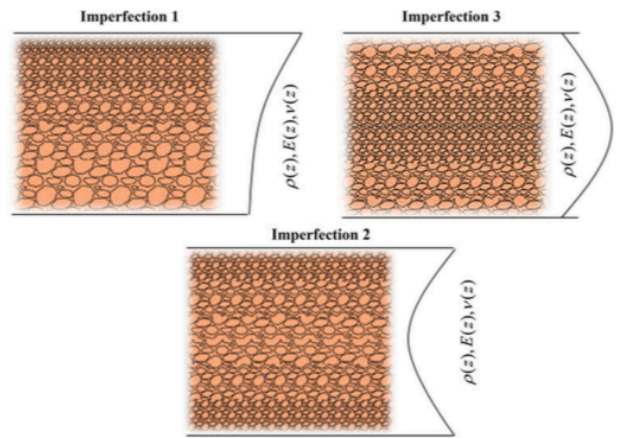


Figure 3. Schematic representation of the porous cylindrical nanoshell with different porosity dispersion patterns.

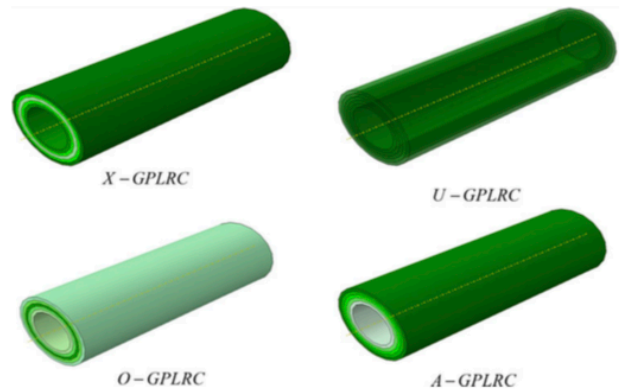


Figure 4. Different GPL distribution patterns in a multilayer GPLRC cylindrical nanoshell.

Middle image above is from: Ebrahimi, F., Hajilak, Z. E., Habibi, M. and Safarpour, H. [2019] "Buckling and vibration characteristics of a carbon nanotube-reinforced spinning cantilever cylindrical 3D shell conveying viscous fluid flow and carrying spring-mass systems under various temperature distributions," *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science* **233**(13), 4590–4605.

Right-hand image above is from: Habibi, M., Mohammadi, A., Safarpour, H. and Ghadiri, M. [2019] "Effect of porosity on buckling and vibrational characteristics of the imperfect GPLRC composite nanoshell," *Mechanics Based Design of Structures and Machines*, 1–30

See:

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https://scholar.google.com/citations?user=Jx_7008AAAAJ&hl=en

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Selected Publications:

Safarpour, H., Ghanizadeh, S. A. and Habibi, M. [2018] "Wave propagation characteristics of a cylindrical laminated composite nanoshell in thermal environment based on the nonlocal strain gradient theory," *The European Physical Journal Plus* **133**(12), 532.

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Ebrahimi, F., Habibi, M. and Safarpour, H. [2019] "On modeling of wave propagation in a thermally affected GNP-reinforced imperfect nanocomposite shell," *Engineering with Computers* 35(4), 1375–1389.

Esmailpoor Hajilak, Z., Pourghader, J., Hashemabadi, D., Sharifi Bagh, F., Habibi, M. and Safarpour, H. [2019] "Multilayer GPLRC composite cylindrical nanoshell using modified strain gradient theory," *Mechanics Based Design of Structures and Machines* 47(5), 521–545.

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Habibi, M., Hashemabadi, D. and Safarpour, H. [2019] "Vibration analysis of a high-speed rotating GPLRC nanostructure coupled with a piezoelectric actuator," *The European Physical Journal Plus* 134(6), 307.

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Safarpour, H., Pourghader, J. and Habibi, M. [2019]. Influence of spring-mass systems on frequency behavior and critical voltage of a high-speed rotating cantilever cylindrical three-dimensional shell coupled with piezoelectric actuator, *Journal of Vibration and Control* 25(9), 1543–1557.

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Pourjabari, A., Hajilak, Z. E., Mohammadi, A., Habibi, M. and Safarpour, H. [2019] "Effect of porosity on free and forced vibration characteristics of the GPL reinforcement composite nanostructures," *Computers & Mathematics with Applications*, Vol. 77, No. 10, pp 2608-2626.

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Ebrahimi, F., Mohammadi, K., Barouti, M. M. and Habibi, M. [2019] "Wave propagation analysis of a spinning porous graphene nanoplatelet-reinforced nanoshell," *Waves in Random and Complex Media*, 1–27

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H. Moayedi, H. Aliakbarlou, M. Jebeli, O. Noormohammadiarani, M. Habibi, H. Safarpour and L. K. Foong, "Thermal Buckling Responses of a Graphene Reinforced Composite Micropanel Structure", *International Journal of Applied Mechanics*, Vol. 12, No. 1, 2050010, January 2020

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